

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Rajesh Kumar et al.

Art Unit : 1651

Serial No. : 10/688,582

Examiner : Rosanne Kosson

Filed : October 17, 2003

Title : ENZYMATIC SYNTHESIS OF POLYMERS

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INFORMATION DISCLOSURE STATEMENT

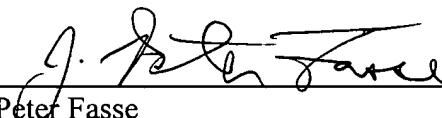
Copies of the references listed on the attached form PTO-1449 are enclosed.

This statement is being filed before the receipt of a first Office Action on the merits.

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Respectfully submitted,

Date: 10-8-04

  
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Substitute Form PTO-1449

U.S. Department of Commerce  
Patent and Trademark OfficeAttorney's Docket No.  
08688-056001Application No.  
10/688,582**Information Disclosure Statement  
by Applicant**

(Use several sheets if necessary)

(37 CFR §1.96(b))

Applicant  
Rajesh Kumar et al.Filing Date  
October 17, 2003Group Art Unit  
1651**U.S. Patent Documents**

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA						
	AB						
	AC						
	AD						
	AE						

**Foreign Patent Documents or Published Foreign Patent Applications**

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AF							
	AG							

**Other Documents (include Author, Title, Date, and Place of Publication)**

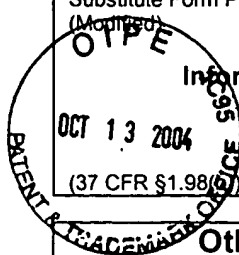
Examiner Initial	Desig. ID	Document
	AH	Bisht et al., <i>Am. Chem. Soc.</i> , Volume 120, p. 1363, 1998.
	AI	Bruma et al., <i>J. Macromol. Sci. Polymer Reviews</i> , Volume C41 (1 & 2), p. 1, 2001.
	AJ	Chaudhary et al., Biocatalytic Solvent-free Polymerization to Produce High Molecular Weight Polyesters, <i>Biotechnol. Prog.</i> , Volume 13, pp. 318-325, 1997.
	AK	Chojnowski et al, <i>Polymer Preprints</i> , Volume 42(1), p. 227, 2001.
	AL	Cordova et al., <i>Micromolecules</i> , Volume 31, p. 1040, 1998.
	AM	Gross et al., Enzymes in Polymer Synthesis Ed., <i>ACS Symp. Ser.</i> 1998.
	AN	Gross et al., A. Polyesters and Polycarbonate Synthesis by InVitro Enzyme Catalysis, <i>Appl. Microbial. Biotechnol.</i> , Volume 55, pp. 655-660, 2001.
	AO	Gross et al., Polymer Synthesis by in vitro Enzyme Catalysis, <i>Chem. Rev.</i> , Volume 101, pp. 2097-2124, 2001.
	AP	Interrante et al., <i>Polymer Preprints</i> , Volume 42(1), p. 225, 2001.
	AQ	Jones, Enzymes in Organic Synthesis, <i>Tetrahedron.</i> , Volume 42, pp. 3351-3403, 1986.
	AR	Klibanov, Asymmetric transformations catalyzed by enzymes in organic solvents, <i>Acc. Chem. Res.</i> , Volume 23, pp.114-120, 1990.
	AS	Kline, et al. One-step Biocatalytic Synthesis of Linear Polyesters with Pendant Hydroxyl Groups, <i>J. Am Chem. Soc.</i> , Volume 120, pp. 9475-9480, 1998.
	AT	Kobayashi et al., The Polymeric Materials Encyclopedia, <i>JC Salamone, Ed., CRC Press, BocaRaton, FL</i> , pp. 2102-2107, 1996.

Examiner Signature

Date Considered

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 08688-056001	Application No. 10/688,582
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Rajesh Kumar et al.	
		Filing Date October 17, 2003	Group Art Unit 1651


**Other Documents (include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document
	AU	Kobayashi et al., Catalysis in Precision Polymerization, Kobayashi, S. Ed., John Wiley & Sons, Chichester, Chapter 8, 1997.
	AV	Kobayashi et al., <i>Macromolecules</i> , Volume 31, p. 5655, 1998.
	AW	Kobayashi et al., <i>Polym. Degrad. Stab.</i> , Volume 59, p. 195, 1998.
	AX	Kobayashi et al., <i>Adv. Polym. Sci.</i> , Volume 121, p. 1, 1991.
	AY	Kobayashi et al., Enzymatic Polymerization, <i>Chem. Rev.</i> , Volume 101, pp. 3793-3818, 2001
	AZ	Kumar et al., Chemo Enzymatic Synthesis of Novel Functionalized Amphiphilic Polymers, <i>Polymer Preprints</i> , Volume 43(1), p. 578. 2002.
	AAA	Santaniello et al., The biocatalytic approach to the preparation of enantiomerically pure chiral building blocks, <i>Chem. Rev.</i> , Volume 92, pp. 1071-1140, 1992.
	ABB	Suda et al., Dehydration Polycondensation in Water for Synthesis of Polyesters by Lipase Catalysis, <i>Proc. Acad. Jp.</i> , Volume 75B, pp. 201-206, 1999.
	ACC	Torchilin, Structure and design of polymeric surfactant-based drug delivery systems, <i>J. Contr. Rel.</i> , Volume 73, pp. 137-172, 2001.
	ADD	Uyama et al., <i>Chem. Lett.</i> , pp. 1149, 1993.
	AEE	Uyama et al., Enzymatic Polymerization of Dicarboxylic Acid and Glycol to Polyester in Solvent-Free System, <i>Chemistry Letters.</i> , pp. 1285-1286, 1998.
	AFF	Uyama et al., Enzymatic Synthesis of Aromatic Polyesters by Lipase-Catalyzed Polymerization of Dicarboxylic Acid Divinyl Esters and Glycols, <i>Polymer Journal.</i> , Volume 31, pp. 383-386, 1999.
	AGG	Uyama, et al. Lipase-Catalyzed Polycondensation of Dicarboxylic acid Divinyl esters and Glycols to Aliphatic Polyesters, <i>J. Polym. Sci., Polym. Chem. Ed.</i> , Volume 37, pp. 2737-2745, 1999.
	AHH	Uyama et al., Lipase-Catalyzed Polycondensation of Dicarboxylic acid-Divinyl esters and glycols to aliphatic polyesters, <i>J. Polym. Sci., Polym. Chem. Ed.</i> , Volume 37, pp. 2737-2745, 1999.
	AII	Watterson et al., Observing the Aggregation of a Novel Amphiphilic Polymer in Solution using <sup>1</sup> H-NMR Relaxation Times (T1), <i>Polymer Preprints.</i> , Volume 42, pp.189-190, 2001.
	AJJ	Zhong et al, <i>Langmuir</i> , Volume 16, p. 10369, 2000.
	AKK	

Examiner Signature	Date Considered
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